SIMCMS MEWS

Sinclair Computer USErs Somety
$122=$ FHODES ROAD
JOHNSON CITY, NEW YORK 13790

Summer 1507 is history, and this Labor Day weekend I find some time to finish this issue. The July and August meets were lightly attended and short. Carl Mortis brought his PCBSoo, the Chinese TS 1000 olone to the August maty, and these present learned what it can dog and alsa found out what 4 Bo these days will get you. Thanks Carl. Local members dues are due! If this newsletter is addressed to you by hand inot printed labely, your dues are past due. Fiease mail in your B7-8B dues today, or your name will be dropped from our mailing liste We hope to sex all at the upcoming meets, and here are the meet dates for the remainder of 1988:
SEP 16 DCT 21 NOV 18 DEC 16
At the Veatal Liorary at 7 pm . Bring an idea, a project or a rement purchase, bring a friend, come on down!
Dur meet echedule for 1986 is a mess! Ey the time I got to the library to arrange for the meeting room for 1988 , the loral commodore elub had picked up everyother third weanesday. Getting the same day of each month was imposenible. The 1988 meet sthedule is as follows: Jan 27 Feb 17 Mar 23 Apr 20 May 25 Jun 15 July 27 Aug 17 Sep 28 Det 19 Nav 30 Der 21
All are Wednesday nites, at 7 pm . at the Vestal Library. Editorial: Flease do NOT send Eash to us thru the mail. Flease use a check or money order, and make sure your return address is on the chedk or montey order. Thank you.

A critique of sincus News, and one that i have neard before, and do not know how to solve, is that a ney reader, of new user is unfamiliar with the abbreviations and jargon used on these pages. Likewise at meets, the language is heavy with jargin, aboreviations and insider quips. For the most part a new user or redder can learn more by asking questions, easily done at neets, more difficult in the newsletter. I get several newsietters, magazines and ads each wonth, and occasionally have to figure out the abbreviations myself. For years, S5, Dis ad and DS meant single Side, Doubie Density, Quad Density and Douile Sided, now I see 25 and 20 , do they mean the same? All the terms I all referring to are describing floppy discs. A glossary of terms included with each issues, or with each new fember maybe an answer, Any suggestions? In each issue 1 all either trying to make space for what I have or trying to fill up blank space, 50 I tend to try to get out the info I understand without looking at it with NEM eyes. I also note I ain peluctant to expose my ignorance in front of a poom full of computep experts, but if I want to learh...

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\text { I wish to thank the author of Larken } A D . n n \cdots n \ldots \ldots \ldots \ldots \ldots \ldots
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\text { the Copy right article from J. Dohany............................... } 7
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\text { the Dallas TS User Group, it Accudraw Ad..................... } 9
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\text { very good reading! Faul Hill Misc.........".".".".". =."..". } 15
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This issue marks mind of two years of editing and publishing SINCUS NEWS, anyone want to take a shot at it is weloome. Call or drop me a noterthants.

$$
\begin{aligned}
& \text { SINCUS NEWS - SEF/DCT } 87 \text { - INDEX } \\
& \text { Dallas UG Copy Eiten......." z }
\end{aligned}
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Announcing the start of a SEN tevsletter－for 2068 users and Oliger Disc fans．Brave souls these folks，going on four years since that keash vrist clock company chickened out on u5，and some have the nerve or gall to start up another neusletter．
Hell we here at SIWCUS vish the vell and all the luck for the pronises and hopes they have for their new publication．Lets face it folks，there isn＇t a whole lot you can spend money on for your 2068，so you say as vell get in on another newsletter．In the past you had prograas，printers，adems and Ifs galore to purchase， plus several eagazines，nov you got．．．．Subsribe to a couple nevsletters，and the remining magazines，learn sonething nev，what vere you going to do vith all that eoney？Save it？？
So here＇s the info on the nevest neusletters
TS2068
Safe Disk Up－Date the user＇s WEWS
1317 Stratford Ave，
Panama City，FL 32404
（904－871－4513）

TS2068 Safe Disk Up－Date is a Quarterly nevsletter devoted to the support of users tho have up－graded to Disk drive systems．A special feature section is about the Oliger Safe Disk Operating Systen（SDOS）． Ravsletter issues are published on the first day of January，April，July and Dctober，Amnal subscription is $\$ 12.00$ per year．Bill Jones，Editor
 Articles and Revievs紋i552068 Computing，vith Scossazerechnical：Schenatics，Data Sheets， Irterfacingetasubscribers fret Ads：Swap；Sell and Manted蜼

Artwork screens via Pete Fischer and John Colonna．

 COPTBIGHIS．
－（C） 1987 in the Public Domaiz－
I vant to oxplain a little I hav found out about copycight lau，because it is really getting to be an iaportant subject for averybody in the couputer world，not just for artists and playurights and novelists．Mow it is aecessary for Propramers to know what part of their vork，If any，is protected troe use of reproduction vithout their constnt．

It is aiso IMpcuifive that coaputorists know where they stand when they buy or use sonebody＇s copyrighted product，and how to do kight by both programer and thenseives，because the clais of son softure companies and their＂Iicenses＂sake the sobject reaily contusiag．
－DO I WNOU LAN？M，BUT IF YON HW A FEN BMES．．．
There are folks，ybe wecessarily spend years＇working with the Ins and Outs of U．S．Copyright lave，and so it is not likely ve are going to vring out all the details bere．horeover，I an not a lavyen，and thay are the experts in the field．I have fost been erposed to a few vimpoints here and there，because as editor of a nevsletter that MEEDS material to exist，the teaptation to borrow blindly is stromg．I wrestle occasionally vith both conscience and pride－ 1 lose out to each．
－GIVE 领 WTUS $1-2-3$ 保 GIVE IE DEATH．．．
I feel I＇n not the only one who vishes that，in the true spirit of fellowship，I could take this and that and pass it along，cartain in the knowledge that the author INTEMS us to be so enriched．In conputer circies，such fellowship is tradition． the tend to assuan that slace ve are not out for profit，wean disseninate whatever we find．But conbine this with a lack of understandiaf of wat a copyright is and does，and the stage is set for people to screas＂pirates＂and accuse the whole computer world of what fev actually do Knovingly．Some thilk，tor lastance，that a copyright is a symboilc tern for＂Please give w credit for having originated this＂；Heck，l＇ve seen Prospas Copy Services，calling thenselves Libraries；that tur on the prealse that as long as the author fots credit on the screen listing， copyright dolifations have been fulfilled．The sore reputable libraries all have store－bought prograns，and that in itseif is no sin．But sose Individuals who pervese the libraries get a bit confused－isn＇t that software conpany defuact？Vell，then，the progras is Public Domaia，woulda＇t you say？

I us inclined to agree；I vish I had copied all those progras before I started reading aboat copyrights．

Hey，I＇s looking from both sides of the fence and cursing the fence that spoils the viev．
－THE PLIII FAX．．．．
Copyright lay is not instinctive．I read a government paphiet，talked vith sone friends，a librariam；looked it up in the encyclopedia．I still can＇t believe it is such a sess．

Bot the first point to make is this：it is Lay．Ho one gurantess it makes sense．Lav is not bound to such thiags（ask a layyer；lay supercedes gensibilities）．

One can at least hope that there is some sort of principle that ariginally guided the lavakers．

Point 7vo: Ideas, your thoughts, are sat and cannot be ouned by anyone. But a Creation of your aind and talents and ideas CMH be ouned, bought, sold, traded, and conitrolled. It is put "on the aarketplace" by you. (Even Patent lays, which ve aren't going to po into nuch, recognize this point-- a sound patent is based on the shova Application of an idea... the idea is protectable once It tates Its PMCTICN appearance.)

Now there can't really be an "Iden aarketplace" uhere people pey for the value of innovations, perspectives, unique applications, and just plain hard work-- not if these sume thiags can be stolon for free. People caa't stop letting others have the products of their minds, either.

The oaly solution which allow a arket fof the creative intellect is to use society's cobrcive force: Goverment. What we are talkinf about is a Repulated markot. Governant enforces Property lifhts to insure no stalim occurs, thus the sarket is able to function.

Point Three: What copyright lav vas designd to do is pretty simples. It vis designed to protect somone's unique coans of erpressing, and perhapt profition from, the expression of in icam. Ant It also vas designed so that ideas themelves wre fret to exist, with or vithout that particalar mans of expression. -CRIME AD PULISMETI....
that can be covered by a Copyright? Bell, It has got to be a work product. It is claimed as an origial work product by its creator. Its protection under the law bepies the nowet it is created. Its creation oust not inhibit other's expressions of ideas in the sarkotplace. That's about the linit to copyrighting.

Your face is not copyrightable. Sorry. Anyone with a capera can take your picture, and coprright the photograph, and sell it to the miriomL engurer. Your tough luck.

- Your spsecti is not copyrighted. Your speech on a particular dey, captured for posterity on a tape recorder or by a scribe, may be copyrightable. In order to do so, you wust clain that spaned as a work specifically origiating frow you. At the the of the speech, you have created the work, but if you do not clail it to be yours alone, you share it vith the vorid until you do clain 1t. Once clained, you have a lot of say over whert and how people use your work, even if they were exposed to your wark prior to your claining it.

Hey, could they clai it Hisst? Peah. In cuses like that, you cust prove that that particular erpression could only have coses froa you 25 the creator, and that you meant it to resain yertri 2: the tise of its creation. Good Luck, Spart,

Wig is one reason copyright lavs keep chanizin. The laveakers try to protect everyone who has a right to the protectien, evea If the creators/artists, etc. are mot being too bripht about protertia theuseives. It used to be that registration with tha U.S. Copyright Office vas essential, or your work was cansidered "dedicated" to the public. Jut registration ms a lengithy process and a bit of a hassle: Forns, fees, copies of the work donated to the Library of Congress....

So the nore recent revisions to the copyright code state only that the work has to appear before a sigailicast group of prople, say pablication in a trade journal or something lite that; Yolla, It is copyrighted! or you can clail a copyrigit the sceent sonething erists as a work: vritios "Coprright (C) 1987 by Tia Author is considered a notice to the worid that you have
total clail on the work. The legal purist will, hovever, note that in court. a Copyright filed with the Copyright office is senarally considered Iron-clad Evidence of the history of a work. If you wand to make noney off your work, you should protect it vith the Governent's stanp....

The ones who clain the work are generally the creators, ualess the creator has in one fore or another relinquished his authority to claie the work by giviag over that authority to asother purty. It you subait an article for publication to a agazime (or even Startent), you can clain your copyright prior to Its pulication. If you do not, it ay become property of the publisher. The poblisher has an iaplicit sort of afreesent vith the persom who subuits a vork. This agreesent coses from whether or how you erpect to be paid for your wort, and under what conditions you restrict their own right to use or re-use their product.

Startert, for enaple; is a copyrighted work. Everything in it coses under their copyright blanket. ECEPT: when the author claiss the rights prior to the work going online. So, if I want to copyright this colun for the Dallas Tien/Sinclais Users Group, all I have to do is say so. By doling that, they say choose to pwilish what for the Dallas Timex/Sinclais Users
Group, all I have to do is say so. By doing that, they say choose to publish what I volunteered to them, only if they assert ay clais and $\mathrm{y} y$ byline, sonewhere noticeable in their issuance of ay work. If I doa't say so, or I sey ICTI987 sthatert instead, then I have assigned the copyright to then, and I release theo from haviaf to ask ay pernission if they want to use ay work later (to show the talent avallable to their subscribers! then the rork is theirs, they say choose to defend their right to it as viporcusly as they vish... like if it shows up on another pay neus-andinfornation service or bas.

Vell, can you copyright a conpilation of other vosks? Only If the act of compiling is coasidered at least as much an oricinal affort of creation as the works which appear in it. That stuff works for statistical compilations, for instance. Trivia ganes ate copyrightable. A coapilation of disco recoeds yoy taped fron your albus collection is not really considered a original eftort.

Copyrights apply to literary works like artacies, novels, abstracts, reviews, poetry, programs, traascriptions, etc. They apply to artistic vorks like sonts, paintlags, engravings, typlaces, charts, photographs, statves, visual designs, etc. They apply to performance works like recardings (audio, video, ND machine-control prograss), plays, live perforaances, speeches, etc.

Copyrights don't apply to general principles of processes, iaveations, etc. (Patents cover those types of things). Circuit board artwort is copyrightable, but the circuit itself is not-o though the circuit ay be patentable.

Copyright doesn't apply to anything which has been considered dedicated to the Public. You can't copyright tha vovels, or the Gettysburf Address (I suppose lincoin could have, but didn't). A creator can specifically say that a work is to be considered Public Domin. Subsequent copyrighting of that work is invalid. This is the basis for the tradition of Public Donain softuare libraries and bolletin boards. It is unfortunate that feu ladividuals bother anyeore vith Public Domain. They just
don't remanber what it was like when coaputers were rare and sottuare was raref. This is a situation that only software authors can change, if they can overcone their entrepreneurial urges.

Copyrights, like patents, eipire. In setting up a monopoly, the goverment is careful not to beria something it would have to deal vith forever. It so happens that this is the trichiest and stickiest thing for lavakers to decide on, bocause uriters alnays vant to sake sure their tids eat, too. For a loas while, copyrights had a duration of 56 rears, or the lifetime of the author plus fifty years, whichaver is preater. Then they chaged the lay so that you could have a copyright for only 28 years, but could rener it for another 28 . Then thay changed the law, in 1978, so that the reseval vas 47 years: $28+47=76$ years. Altermately, the life of the author plus 50 years would be the duration. If it was created becasse someone hirsd you to create it, another duration cam on the serne. Yorks from organizations and anonynous-typos would be protected for $\%$ yaars froil the publication of the work, or 100 years froe the creation.

The reason for goin into this is that wart chages are apparently going to com out, because nobody is satisfied the lay guarantees then a place in posterity. Additiomily, if you did something prior to 1878 , it is protected differently than sonethia you just created.
-LIFE'S A GNE Of GIVE ND THPE....
So what CAll a copyright do? It is as assertion of propextr P!exts. Like amy property, it veuld be foolish to post "lo Trespassing ${ }^{\text {E }}$ on something you dida't really care to hold as your orn. Bot once you have claised your sight to the property, it is yours to: puhlish or reproduce frely, extract fron, add to, sell, rent, trade, and control any public (and some private) uses of your nork.

In fact, you don't have to defend a copyright in order to eniatain the property sight safely, II you fiant ireedons vithout restriction to another, however, it is aot possible to "take baci" your exclusive rights. host holders, tharefore, reserve all rights to theaselves, and graat parnission to others only if they ask nicely and the arguant is stroug, perhaps in money toris....

Reproduction or use vithout your consent as a copyright holder is prohibited. This is true evea if it is an loager being poblished, and is hard for others to yet.
-THE WAI OW DVRS....
Get, how can I be sure I a MOT violatiag sonehody's property rights? What about sinilar products, like clones and initations? Whell can I use copyrighted stuff and MOT violate the law? Initations flrst.

A little arlier I said that a copyright should not, in its creation, inhibit someone else's erpression of ideas in the sarketplace. Boy, what a can of vorss! the lav doesn't Really specilically say anything like that. but it comes dovn like this: If It ain't the sam iden being erpressed, then the sistlarity of expression is Style alome, Not Copyrightable. If it is the same idea being expressed, a sinilarity of erpression say exist sominnat. The moment it my be judged to have lavoked a real seablance to an enistinf copyrighted vork, even uithout vords or phrises to prove it, you my be on dangerous ground. Initations, while a sincere form of flattery, are tosted lefally according to their tendency to sugest the original to the einds of the people
whe see it.
Resemet K.C. huachkin? It vas a gase for the 111 -fated Magavor Odyssey Il gan systes. They claired that though it Looked like Pac-han and you controlled it like Pac-llan, the rules of the gas vere sufficiently different-- the plot was changed. The courts felt like everybody who played the gane were, in effect, playim; Pac-lian, moter what the bor said you vere reilly playing. Yas the idea the sase or just the style? Did the tolks who created K.C. intend to capitalize on the sisilatities to Pac-lhan? Pou Betcha, suid the courts. Copyright infringenant for sure. If opiaion is that they vere correct: Sadly. K.C. Munctitio was a fum gane and rastly superior to the Pac-lian that Atarl was putting out. All K.C. could do vas give up the fhost (wocke-wocke-wocku).

Of course, it is a fact of life that there are going to be may sisilarities of expression among groups of people who share comon cultural and laraed experlonces; but copysight is based an the belfef that in democracies, anyway, one huadred aisds have at least one thousad mays to approsch an lden, uravine it, voice if. That beliof, does, in a way, mke sense. Perhaps when you get to the expressions worked out on achines, howerf, which have definite ways of warking with those expressions, you should be dern careful to make your iden (or the product of it) independent.

And the way the lay is dealing with these things is changing. In fact, nowadays, what vith some rather sophisticated and compoter-literate lavyers, ones who know what SOURCE code, etc. neans, the rule about the initation suggesting the origimal in the cinds of those who see it IS DADN NEAR DEND, for computerists anyvay. The courts are taking into account Progras Structure and Code. If the code doesn't sufgest the original (eeaniaf they can't flad any 'lifted" sections of programing in the initation), the iaitation constitutes a new work.

Every P.C. clone sachine sold has its own version of the I8M BIOS ROH, and maybe a BASICA conpiler-substitute. The BIOS they use is designed to be compatible vith all WS-DOS softuare... that's a selling point. Whether it is on dist or Eran is irrelevant, just like a book and a tape of the lacse are the same work. Idea and style are the sale, obvicresivo- the coding, however, is different. For aschine-control prograss, apparently, that is enough difference to avoid prosecution. Selieve me, though, if lan finds aaybody with ripoff COOE, or anyone who duplicates their RONS, you can bet there vill be fight.

Look for a resurgence of the "look and feel" arguent if Softuare Asts wins agiast lotus in the milti-aillion dollar spreadshent suit. Coaparisons of Lotus to K.C. Munchikin? Tup.

Apple Computer claiss a patent on the idea of an operatia systen with a thoroughly Intefral Icon-and-House user interface. Hotice their patent seans absolutely nothin to the makers of front-end enviroments, where the user interface is marely a substitute for working vith the base operating systef. But they copyrighted their particular icon artwotk, too....

So vhat can you do uith a copyrighted progran? It you vere to listen to the intinidating advertisiag done to prowote Plracy Avareaess, you aight cove to the conclusion that softrare remins property of the softuare houses and you are just borrowing it and you had better wot ake a copy to back it up. They say Sally

Secretary has becone a felon because she duplicated a dish and pat it in her desk draver (never aind that her hoss would kill her if she screved op that $\$ 400$ peckafe he just bought). They iaply Harry Hacker is a miltinillion-dollar threat to Aeerica because he doess't Ifte to pay tuice to buy a pactage, once for the office and once for his lowe coaputer, on which he does vork the would othervise be doiay at the office.

That's the real story? Greed. Just like they tried to kill Betamaxes and VCRs in zeneral. Just lite record companies have tried to persuade the public that if they tape a record in their collection to play in their car, thyy are starviay sone poor artist. Buy it, byy it again, they say, Right.
-FALR YON USE ORL....
It will anger some to haar the truth being spoken. You bought a prograe (or record or tape or whatever) that was a comercial product, yours to use. The copyright prohibits you froe makiag copies to sell or give amy. It dons not say you can't sake copies for your own private use, once you bought the orifinal product. Copyright does not say backups are against the lam.- Copyrigit does not say that you an the buyer are not entitied to choose when or whare you use the product you bought, once agaib, as lonf as you are not aking it avallable to a noinprinate use. In fact, the only this that says these things are urong is the softuare liconse that the laryers of the sottuare company drafted is order to intiaidate a potential coprright abuser. The License is a pre-sale contract vith the user. Bead It. Don't buy softuare from stupid companiss. Keep in aind that breach of this contract is a civil matter; they my choose to sue you over it. Copyright violations are not the same thing, not at all. Copyright violation is a Felony offense.

Backups and additional private use copies are allowed under the copyright laws due to a section in then called FAIR USES. Fait Use was written so that people could properly deal with a work, such as in refieving or usiag it for private study. Private use mans that if the only carket you are spoiling through your actions is YOU, and you already bought the worl once, no copyright violation exists. Additionally, Fair use mans you in no way are competing vith the vork Itself and what you are doing with the vork is for educational, non-comercial purposes, such as extracting portions of a vork for reportiaf on it or the erents which surround it.

Iov are MOT allowed to "spoil a market" for someone eise. Don't five auay copies. Don't sell any copy (including the orifinal) and keep any part of the vork. Don't sepulish the vork or broadcast It in any fashion. Co-vorkers and friends who want a copy should bry it thetsalves. But if you abide by these things, the government doesn't care if you personally have ende 3000 duplicates for lourself (one for each of your phobias?). The softuare conpaies see this as practically an Invifation to pirate, so they don't want you auare of the full lav. Guilty uatll proven dmocant... that is the eotto of some of the companies.

So nou that you houl... what about compllers? They belp you create your prograns, but they do this by stringing together little stored pleces of code that they wrote. Can you then sell your stand-alone applications progran? hot nocessarily. The little pleces are integral to the operation of the conpiler and they are a part of the coupiler's copyight. They are eostly
unique to the compilar. Now they are a part of your progran, too. which is O.K. since you can use the progran yourself; but if you are creating a profra to sell, you had better darn sure check iato the OBECT CODE BISTEIAUTION requirements the compiler's creator specilies. Sowe compenies deand royalties on any progran developad uita their product. Hy favorite conpiler is mbisic, by Softaid, lac. Their policy is that you can develop anything you mant to and sell it, providing that in the docusentation and code of a progras you have a credit, such as: "Conpiled using MTBASIC. Softuid Inc., P.O. Boz 2412, Columbia 1021045". I doa't have any objection to plugiting a tim tool I like, so this object code requirement is the kind of thiaf I vish every conplies maer would take to heart.

What about azazine listiags? In the Home Computer voild, this is a mojor source of progras. Need I tell you that nost all of thes are copyrighted? They were virtually all written by users like you and w, who vished to share the with the coomunity of eicro usurs that could be reached through the agazine. Public Domila style. Then the wazine paid the a five-dollar fee, had them sign a fore giving thea exclusivity, and pablished it under the magaine's copyright. The agazine usually has a blurb on the contents page where yoe vould aever read it, which states, "haterial contalned herela is the property of Happyflowe Couputiag, lac. and my not be reproduced in any forn without obtainias espress written peraission troe the publisher." Great. Instead of Public Domin, which can go onto a Bulletin-Board, for instance, we have Fair Use Copyright, which can be typed into your conputer but not shared. Hy feelings on this are that it is not fair, and that it can be licked. The prossan itself is showing you a Source hlgoritha, a solution to a particular problen done up in a lagguge you use on your computer. Hov pick up the ball... and rewrite the progra conpletely anev. Sure it is tougher, but the result will be Public Donain. Adapt Connodore listings to your Ther. The resulting code is Ney cone. No doubt about it. Your programing skills vill be bettes, too. Change stupid iapet chains to menus... urite a different sort routine. Listiags are to learn by, anyway. If all you vant is sorething for yourself, it doesn't natter. If you mant to shara, contribute orsimulit.

And that's what all this copyright stuff is about. It is siaply a matter of keeping the lazy and the distonest from ruiniug someone's chances of doing the vork and doing it vell enough to earn something, oven if it's just recognition, as is mostly the case in home computiag. And when you vrite a progran, consider the possibility of sharing it with others in the Public Donail, which builds a hase upon which education and ealightensent for your computer can frow. Healthy conputer commities ated people and theit progras to show the vay. If you copyright, you are part of a market that is requiated and pretty secure-- now all you need is that skill and idea that will set the conputer varid on its' ear. Good Luck!
(< THIS RRTICLE IS DECLURED SEPARTE FROH THE REST OF THE DRLBS TIME/SIMCLAIR MSTRAD USERS MEUSLETTEA, FOR THE PUAPOSE OF DEDICATINE IT TO THE PUBLIC DOMAIS. THE AUTHDR'S INTENT IM bOIMG THIS IS TO MSURE THE EUUCATION OF COMPUTERISTS EVEEYMERE.》) - and 1 manted to make sure there was at least One exaaple of P.D. available....


 The Lkdos cartridgs conbined with this interiace will sive you 2K81 TS1000 Disk Controller Board $1000 / 1500$ will put 160 k on a


256k RAM DISX

 chippind with $32-64 \mathrm{~K}$ and the user can add oxtrais ram (up to 256 K ) Becausit usis standard cangetto comands it can be useful






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Other fairwart was urittmn by mysalf or by others. If by othars,
it is included in the FAlRWARE catelog with permission, wand
SUPPQRT: Idealily, a, progran wouldibe so well wizuent and so
equipment with which the author software is incompatibiw.
available for the zebs that it' very difficult to wite
THE FAIRWARE CATALOQ is a list fand brisf dencription) of
$\begin{aligned} & \text { currently available Fairwara. The latest catalog will be sent } \\ & \text { upon requept; SABE please. }\end{aligned}$
$\begin{aligned} & \text { A mailing to averyone on my miliing list wal oney be done whan } \\ & \text { a significunt number of changes have mecrued mane the last }\end{aligned}$
mailing. Whm you rmceive a catazeg in much a mixising, please to
THE CATALOB DEBCRIPTIONB ar very brief. It you ar curious an
UHEN ORDERINO, FAIRWMRE, plenama dwacribe your yyetem fuliyy wo I
useful for describing your syitem.
(415) 367-7781
March 1987
** JACK'G FAIRWARE ** FAIRMARE is my word for gHAREWARE, which is CONDITIDNAL
public-domin. undr-supported moftwari that is MOT exactly fres. he or she recwived.

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EZEDIT (VI) by David Wright (Sinclair User b-85)
-Renumber, Copy, Find, Auto Line Numbering etc.

- Includes SPECTRUM and 2068 versions.
-requires lOK data line resistors which spectrum has and stock
2ø68 lackss fully documented.

EXTENDED BASIC by Robort Nomman (Your Computer 9-E4).
-Complex maching-code utility, but pretty easy to use.
-Adde nin new BABIC comands; for SPRITE BRAPHICs management.
-For 2968 only Spectrum version available soon.
 KEYWORD (V2) by Elyn Kendall, YC b-e4,
-Allow BASIC commands to be typed out, rather than mitermd as keywords. No need to look for comande on kwyboard. Esmential for add-on keyboards that don't have keywords on keyw. VI had available soon.

6RL (V1) by Jack Dohany Encoded Eraphics File", which in a picturn that can bo sent or received via modem. Specify gRLT (for cameette only), or GRLD
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2068 lacks fully documented.
EZEDIT (Vi) by David Wright (Sinclair User b-85)
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-Includes SPECTRUM and 2068 versions.
-requires lOK data line resistors which spectrum has and stock
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Enclose check or money order for $\mathbf{* 1 9 . 9 5}$ (includes S*H), payable
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Bur7
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compare

这号
 electronic aquivalent of a drafting machina. for axcellant artistic application. Two sizas of printad display are avallable. Two more with coresident printer drivers, (Aerco exit AcculRAu to prints. Artwork samples are includad with may be re-adited with any other graphics editors for the 2058 . b- box / rectangla, alastic. a- arci band currant lina, 2 spead (aftar point a linez c- circla (aftar point, conditionslly olastic)

d- duplicate and transiate objact (aftar bax) | d- duplicate |
| :---: |
| arasa 4 sizes |
| - | f- Fremhand draw/ arasa (spacebar arasas)

F- Fill objact with ink a- user dafinad graphics salact (space
h- bright grid for color manipulation i- inveran vidan of Exa pixals ina (after paint), elas m- mova ' drag inime or rectangla
$M-$ function raferance manu, windowed ${ }^{n-8-w-a r a s e ~ c u r r o n t ~ d i s p l a y ~ s e t u r n ~ t o ~ m a i n ~ m e n u ~}$ p- astabliah point from which olamants, rubberband
q- toggle oUER status (OUER i default)
r- rotate of translate object (aftar box, 90 dag.)
s- use with arc ta bend othar way (sped with button) - save eurrent videc page as SCREENS text, std. Font (enter at ond)
Taxt, bold font

- undo, return to storad scraen
- full screar cursar drivan crosshairs

2- copy screen to 2040 or to impact printer if fitted
z- copy screan rotated 8 tuice size to impact príries
<>- mirtor and translate abject <s-mirrar and translate object
Entar- Keap drawn elament

A CURSOR PAD items on the screen is to move the cursor to the desired item. orograms use thi tequnique. On our keyboard, moving the cursor s somewhat awkwardz hold the cap shift down while preasing 5 o moving the cursor.
The cursor pad described here simulates these special keys.
It plus into a joystick port and, with appropriate software,
The gadnet cansists of a small olamtic box (mine is $z^{\prime \prime}$ by
$3^{\prime \prime}$ ). Mounted in the top are 5 normally-opm puin button switches. Four are in a diamond patterni up, down, Ieft, right.
The fifth if in the center and acts as the ENTER key. Ali these are availabla at Riadio Shack.
For the plug that attaches this to the joystick port, I
found an alagant solution at Toys'R'Us: an extansion cord for Atari joysticks. I eut this in half, and used the fimale end for his Light Fen article in Sep/Oct BG SINCUS NEWS.
In this axample of the saftware I use, the curgar maves
vertically anly. Statements $400-300$ simply croate and dimplay a list of items; your owm program would obviounly have a different
list. The subprogran that controls the curgor is in statments 200-280. This routine requires valuess for $K$ and $L$. which sett
bounds to the movement of the cursor, and which sre supplisd by stataments 110 and 120. When tha center key is pressed, the cursar pad subprogram returns in 1 the number of the selectad
Try it, with your joystick in the right-hand port!

iten.
10
$\langle-\langle-$ Artuork scretns via Pete Fischer－－＞－－＞

These two pages are filled by new mebers，Joan Kealy of El Paso；Texas and Hal Bellinson of Troy；hev York． 11 everyone reading this now would ail in ont or two short prograss or ldeas，this nevsletiep would quickly becone a national bulletin board for 2068 users．Thanks to Joan and Hal，and I know you vill he seeing wore of their efforts over the next several months

The little fellow on the right could be saying just about anything to his computer！Fill in the blank and ve＇ll print some of the more arginal sayings！！
＂Just do wat I tell you to do，will ya fer statetteryin out loud＂

1 FLASH 8：CLS ：POKE 23658．8
INPUT＂FIRST USE？Y $N^{-1}$ ，IH：IF I＊$={ }^{* *}$ THEN EOTO 1

3 IF I＊$=$＂Y THEN GO SUB Bean
5 LET TOT＝S：INPUT＂nUABER OF
CO．S REPRESENTEG ：T
16 POKE 23692， $255:$ PRTNT＂HAME
\＃SHARES PRICE UARLUE
15 DIM P（T）：DIM ध（T）
18 FOR N＝1 TO T
20 PRINT NT（M）
3 PRINT TAB 12：5（N）
48 InPUT＂current price ea．an P（M）

6 LET TOT＝TOT干U（N）
70 PRINT TRB 18；P（N）；TAB 25；UC N）

75 NEXT N
88 INPUT＂uant a copy from TSe
 C． 84

85 IF C事：＂Y＂THEN LPRTNT
PRTANT LPRIMY－T AK TVE

```
86 LPRINT 3 WhAE SHARF＇S
```

T
37 FOR N＝1 TOT：LPRINT N事（N）；
$\because: S(N) ; T R B$ 18；P（N）；TRB 25；U（N
）
89 NEXT N
176 PRINT＊PRESS RNY KEY＂PAU SE B：CLS ：PRINT AT 10,5 ＊NOU F OR TOTAL TODAY＂：INPUT＂DATE IN NLHERPLS？MONTH ：H：DAY $=\mathrm{D}$ ；$Y$ EAP ${ }^{2}$



180 LPRIMT

 185 STDP
BREE PRINT＂YOU UILL NEED STOCK HAPKET PRICEOUOTATIONS FROH NEUS FAPER，LIST OF COHPANIES UITH UH ICH YOU OUN STOCK，AND＊UMEER OF SHARES．＊＂YOU UYLL EMTER CURRE NT PRICE \＆COHPUTER UILL PRIMT THE CURRENT URLUE OF THATT BLOCK OF STOCK ：THEN UPLUE TOTPL FOR ALL STOCK YOU OUN ON THAT DPTE


8005 PRINT $* E L T$ FTRSTH；＊YOU 4 ILL BE SPUIMG THE COMPANY NAHES AHD NUHBER OF SHARES IH A STR INE PRRRAY AND AN ARPAY 50 BE AC CURPTE．HENCEFORTH，YOU UILL
ONLY NEED TD ENTER CURRENT PRICE IN TABLE FOR COHPLETE COH－PUTAT ION．
BROG PRIMT＊＊＊PRESS RNY KEY＊：P
AUSE B：CLS
G＊RE PRTNT＊IF YOU RRE USINE A
TAPE，YOU＇LL NEED TO RECORD POSI
TTON 部 ON TAPE CAREFULLY OR L
EAUE A BLAMK RAEA EOUAL TO LENGT
$H$ OF THIS PFOGRAM RND RECORD
THIS PROGRAM AHERD OF TWO DATA 5
AUES SIMCE THEY UILL LORD FROH
UITHTN THIS PRGGRRAK．
BRO9 PRINT－STNCE MPX OF CORP． NATES IS 16 LETTERS，YOU MPY HA NT TO USE THESTOCK MPRKET RBEREUS IATIONS FOR THE COHPAHY ISSUE：日e10 PRIMT＊＂PRESS RINY KEY＊：PA USE ：CLS
BAI2 I＊PUT＂TOTRL NuHBER OF EPTP
IES IUSUAHLYTHE NUHEER OF DHFITEG
EUT CORPOR－ATIONS INUOLUEDI $\rightarrow T$

RSIED TG enve This reTAL EYUF

ROERAT：PMAUSE 360：CLE
802e DIM NJ（T，10）：DIM IT
8H25 FOR $N=1 T 0 T$
Be3m INPUT＂NPHE OF CD：
（N）
8P35 IMPUT＂NumBER OF SHARES ： 5
（N）
BRAB NEXT N
805？SAUE＂STOKNAMDAT＂DATA N＊（
SAUE＂－SHPRNUHDPT＂DRTA 5（1）
8R6\％RETURH
999 5TOP
9995 CLS：PRIMT INK 9；＂LOADIMG TUO DPTA RRRAYS＂LOFD＂STOK細HO AT＂DATR H\＄（）：LORD＊SHARHUHDAT＊ DATA 5（）：EO TO 1
9998 SAUE＂STOKUALU＂LINE 9995：
$5 T O P$ ：REM DO WIII LSE THIS SAUE
UATIL YOU HAUE SAUED TUO DATA AR
RAY5．
9999 SAUE＊STOKUPLU＊LINE 1：REH
RLI PURPOSE SAUE FOR LATER TWUE
STIEATION OF PROGRAY


```
く－《－－Artwork screen via Pete Fischer
A Big Thanks goes to Richard Mard for the sharing of info on how he hooked up his disc drives with his Larken disc IF， and for a formatting utility for the \(3^{3}\) disc systen．Sharing what we leaph helps as all，and this is what the TS user comennity is all about．Richard also had a request，does anyone have a Spectrun／2068 conversion table？？The ones in particular are：
\begin{tabular}{|c|c|}
\hline Label & Spectrum Address（Hexadecinal） \\
\hline RECLAIM＿2 & 1988 \\
\hline MKKE＿ROOM & 1655 \\
\hline TEMPS & 0041 \\
\hline MExT200\％ & 1779 \\
\hline STK＿TO＿S & 2307 \\
\hline CO＿TEHP3 & 2173 \\
\hline EXPT＿STRIWG & \(1 \mathrm{CBC}_{6}\) \\
\hline ExPI＿24\％n & \(1 \mathrm{C7A}\) \\
\hline
\end{tabular}
we will publish amswers in The wext issue to help out mot guty richard，but anyowe else hishing to Lenew．
10 REM 42 TRACK CONVERTER FOR THE AMDISK III \＆LKDOS by Richard Hurd
20 POKE 23658．8：REIT CAPS ON
30 CLS ：PRINT＂1）CAT＂＊＂21 CONVERT＂＊＂CHOOSE ONE＂
40 IF INKEY + © \({ }^{\circ}{ }^{-1}\) THEN GO TO 40
50 IF INKEY \(={ }^{\circ}=\)＂THEN GO TO 50
60 LET \(A=C O D E\) INKEV
70 CLS ：PRINT＊4：CAT \({ }^{*}\)＂．
80 IF \(A=49\) THEN PRINT＊1：AT 0，5：＂Press SpaceBar For Menu＂：PAUSE D：RUN
90 LET save＝40015：REM save buffer to disk
100 LET load＝40012：REM laad disk into buffer
110 LET Sprt＝40009：RFM Send Drive data to port
120 LET setrk＝40003：FK：M move head
130 LET trac＝43300：REN trac \＃MC variable
140 LET Drv＝43301：REM Drive＂MC variable
130 REM LOAD TRACK
160 POKE trac， \(0:\) POKE cIrV．2：RANDOMIZE USR setrk
170 POKE drv，2：RANDOMIZE USR sprt：PAUSE 20：RANDOMIZE USR load
180 REM ALTER DIRECTORY DATA
190 BEEP ．1， 10
200 POKE 45021，42：POKE 45104，90：POKE 45106， 82
210 REM SAVE TRACK
220 POKE trac，D：POKE trv，2：RANDOMIZE USR setrk
230 POKE drv， 2 ：RANDOHIZE USR sprt：PAUSE 40：RANDOMIZE USR SAVE
240 CLS ：PRINT \＃4：CAT＂＊．
250 PRINT HI：AT O，O：＂ANDTHER？YES OR NO＂
268 IF INKEYS＝＂THEN tio TO 260
270 IF INKEVS＝＂Y＂TMEN RUN
280 STOP
290 BORDER 7：PAPER 7\％INK 9\％CLS
300 PRINT＂40 TRACK TO 42 TRACK CONVERSION FOR THE AMDEK MDIEK III FDD＂
310 PRINT＂＇：＂This routine LOADs the Directorutrack into RaIak ill FDD
2 tracks，then SAVEs it biack todisk．＂
320 PRINT＂＂＂Work is done on Drive WQ ONLY！＂．＂MMake sure that the Write Protect
Tab is OFF！＂＂
330 PRINT＂＂．＂TAB 3：＂Press SpaceBar To Convert＂
340 IF INKEY事＝＂THEN GO TO 340
350 RUN
360 PRINT \＃4：LOAD＂F゙COde．CL＂CODE CLEAR 39999：GO TO 290
370 PRINT \＃4：SAVE＂40－42．B1＂LINE 360：PRINT \＃4：SAVE＂FCOde．CL＂CODE 40000， 100
```

THE AMDEK AMDISK III AND THE LARKEN LKDOS SYSTEM by Richard Hurd
I Jume received Larken FDD Syatem end ran inta a few minor problewe with connecting the AMDEK AMDISK III, 2 drive diek syeten with power supply all tucked into compact caee. It la a sinele alded drive thoush both wides of the diske can be used, the AMDISK "drive-on" Indicator lishta ara ereen when side 1 of a disk la read from or written to and red for fide 2. I recelved the AMOISK fros Perlpherala Direct (1-860-332-9988) for $\$ 45+\$ 5$ sth. The $3^{\prime \prime}$ dlykz are tlll eolne for: 5 for 21 or 10 for $\$ 39$.


I already had the AMDISK when the FDD I/F arrived and the flrat thlne I notleed was that the cable that had cowe with the AMDISK would not work. I called Rod Gowen (RMG) and he eald he had the cable I needed, in otock and he also was a bis help in explainint how to so bout rewoving the old and Installing the new cable. You have to remove the 5 screwe that hold the cover on, then the cover. Remove the centrorilc: connector (I also removed the bracket the connector ettached tol, unplus the card edee connectore from both drives. I don't see why you couldn t uee the ribbon cable that case with the AMDISK and remove the centronlc connectorm and inetall new dede card connectore, avallable from Radio Shack 3.95 each and you'll need 3. The Lerken Operating Manual describes In detell how to inetall the new connectors.

I thought that maybe replacing one end of the centronica cable with an edge card connector (for the FDD I/F) would solve the probles. So, first, I dug out the multi-tester and checked the continulty of the edse card connectors (to each drlye), and found that a couple of the wires were alxed up. They wlll not work on the larken Systen this way. I wat told that the edse cerd connectors that case with the AMDISK are not reusable. (Once they are dieasembled, they fall apertl) An alternetive lo to set a 2 Drive FDD I/F cable from RMG for \$19.95 and Elaply plus it in.

The AMDISK arrived mithout a ownerfoperator manul. When I pulled the cover off the AMDISK, I noticed thet each drlve had 2 dip ewitchee (DS). See figure 1. One, 7 witch DS and one, 5 sultch DS on each driver. The 7 awitch DS on both drive were all witched OFF. The 5 witch DS on both drive' wire switched *s ON the reet OFF. Thle metting did not work at all when I tried to teet the myetea out. So, first I disconnected one of the drives end tried it aifaln, it worked flne with one drive. (Elther one.) So I ran the Lerken eyptea for on hour or so, eselly traneferring quite fem of ay most used prosreas to dlak. Whil. I Just had to experiment with the dip mitchea. I found $I$ only hed to chance drive weo 5 mitch Da. Fifure 1 ehow the tetting $I$ cane up with. I plusged in both edse card coanectora and trled it out, it morked ereat. I fried out the diak copy prozran (Copy2D.B1), no probleal

The AMDEK AMDISK III weene to be very nice syeten. The biseest drambeck la of courae, the cost of the diskettes. It didn't take ae long to fill 5 of them. I' 11 be lookins lnto subetituting $5.25^{\circ}$ single fided drive in plece of one of the AMDEK' drives useing Ite' power aupply.
To convert 40 track formatted diskettes to 42 formatted tracks:

1. FORMAT a $3^{\prime \prime}$ diskette to 42 tracks
2. COPY the 40 track diskette to the 42 track diskette
3. Use the utility $40-42$ to convert the directory track

The alternative is to FORMAT the $3^{\prime \prime}$ diskette to 42 tracks to begin with. Which a person can do if they know it is possible.


To SUAP or EXCHMNE grograas- send us a 60 ninute tape in a reuseable package. Copy or ake up 3 prograns for the 2068 or Spectrul. Provide enough documentation to get a user started either in REH or on paper, State your preference for our suap tape $\$ 1$ or 32 , include your return address, hail to: John Colonna, 28 guilfoyle Avenue, Binghanton, My 13903

To BUY a tape, send a check or Mo for $\$ 4$ for one, $\$ 7$ for two to John Colonna, 28 Guilfoylt Avenue, Binghanton, NY 13903, allow 60 days for shipment. The little left over goes to support the svap progran postage.

Tape Mumber 3 is in the works, but don't send requests until you read of it in this neusietter, Thank you.


I received this letter this past month; in the sixth paragraph I felt sonevhat honored being the owily one so selected to help these people out. This diun't last long, our suap from the Chicago TSUB arrived and to and behold if they weren't siailiaply honored. They reported this letter to the FBI, and the next thing I read is the US Comerce Dept is seeking to get conputer trade vith the Iron Curtain countries going full bore. Apparently the color of patriotisu is green, and financial security above mational Security. So if you got ay old 16 or 32 bit coeputers layim around, of extra cash.....


## Dear Friends!


#### Abstract

My name is Zbigniaw. I am writing to you from Poland. Excu* my imperfect anglish. The addrese of your club I recelved iast yoar from my frimend, who was in your country. I writing, bwcuose I wili do nothing without your help.

I an an electric enginewer. I am internsted in hardware and software of wierocomputers. We ar twenty six young persons, who are internsted in it. We write the programas in BABIC, FORTRAN, PASCAL and issemblurs: 2-80, 8080, 8086. Wo min. marning programing in C lenguage. Alas, the acces to the required literwturi and any 16 -bite computern is verv difficult.

We mast together one time in week. We have thrme g-bits computerse two TIMEX 2049 and one ATARI BOOXL. Ww made oun software. We dreaw of the floppy disk orive and oun printer. ( We wucceeded in printing this Intter used of the barrowed printer.) But our greatest dream is ATARI ST or IBM PC XT Compatible.

Wh have oreat request to make. If you can momehow help us, do it pleare! Perhap you have a computer equipment witch one is not used long ago. Send it to us. We are able to repair it by oneself.

Planwe. If you can to give some financial holp, do it on fter-mintioned cores

Sank PKO SA a/Gdansk, Sopot: Pl. Konetytueji 3 Maja i, POLAND Mr Zbigniew Dziekonski, 日2-200 Malbork, Osiedse $x x-1$ ecia 18A/2 No 795-4-58e 12


 the 1b-bitis computar, then we can to repay makelng the softwar for you.

We would like to enter into corrempondence with you. This is our addremes

$$
\begin{aligned}
& \text { Mr Z.Dziekenski, G2-200 Malbork, POLAND } \\
& \text { Owi wdy } x x-1 \text { ecis PRL } 18 A / 2
\end{aligned}
$$

We are waiting for the message from you.
Youre very truly

> Zbigniew friende.

A ropre of the cower for the bide te $I / S$ Telecommications, out out by Pett fischer and Steve Ishici, a 98 paye effort on behalf of and for TS users. (final version of the cover has a pic of the Goiden Gate.) If you have MOI yet ordered this lovely bunch of coconuts then by all weans get that checkbook out now and send Pete one for 67.50. Mait it to PO B0X 2002, Tenpe, Al 85281. This is money well spent, and whether you are vell versed or a novice on telecomeo- that's modening - using your computer and your telephone, you vill get a kick outa this, Via Pete and John Colonna I got a hold of a bunch of screens(uhich can be transferred via your computer/moden), and 50 I sprinkled sone through out this issue.
??!!??OUT OF SERUICE!!??!!
Several of us locally having been expirencing bad connections with BUBBS-607-693-3359- with well near a 100 TS files uploaded to the Tinex files, it is a near tragedy that the SYSOPS pulled the plug on us. Apprently some user said something nasty earlier this year and the SYSOPS put a FOR SALE sign up. Mow I can not reach his via voice line either.


HATED - FM SALE - SMAP
Hy - SME - TRADE FOP SAE: TS 2068 Computer used 3 miths, vith 1 game cartridge, $590.752040,530$. 1050 moder board, case, parts for IF- RETI MFER. TS10I6 RM, 35.

Hillial Tilley 607-748-1885
709 delano Ave.
Vestal, WI 13050

FOR SNE: TS2068, MIVEIII Ink Jet Printer, Aerco If, 0S64 cart. tape redr. Over 10 acs of softsome unused-all docs-BEST OFFER: Hyrne Maclonald 607-656-8959 61 lorth Chenago Ave. Greene, WI 13778
 prodects mentioned in this newsietter are not an mentorsant, ads carried in this issue are as a favor to the readers to ketp the infored of products and services currently on the earket. Views and opinions expressed herein are not accescarily those of the socisty.

A nello and welcome to new members:John Constantine, Chapel Hill, NC; Ray Alba, Orange, TX; Pete Fischer; Tempe, AZ; Courtney Caing Waukegan, IL; Larry Kenny, Navan, ONT; Donald Flecd, Dldsmar, FL; Harold Romer; Johnson City, TN; Thomas Skapinski, Coram, NY: end Vearl Faunce, Tipton, IN. A little input from each and everyone makes the letter more interesting for all.
And here's a Scroll of the Screen and tip of the cursor to RENEWING members, Willian Walker, Huntington, WV: W.C. MacDougall, Montreal, QUE; and to local members, Wes Brzozowski, John Colonna, Scott Eddy, Charles Koeth, Don Lamen, John Livingston, Stanley Livingston, Carlyle Morris, George Penney, Dave Schoenwetter, and William Tilley. If you have paid your dues this summer and your name isn't here, contact Paul Hill. If you have NOT paid but wish to stay on the mailing list, send your dues in NOW! (Local members only)

The TS User Clubs of Florida announce the:
SUNSTATE TIMEX-SINELAIF WINTEF FEST PE now being organized
A BBS has been set up called thr. "Sunstate TS Bulletin Service" at 904-775-0093 300 Baud 8-1-N 24 hours a day 7 days a week

Public Relations-Darrel Stec, 249 N, Harden Ave. Orange City, FL. 32763


